

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P893441

Luminaire Tested: 4MB-3SL-RND-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-3SL-RND-UNV-L830
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

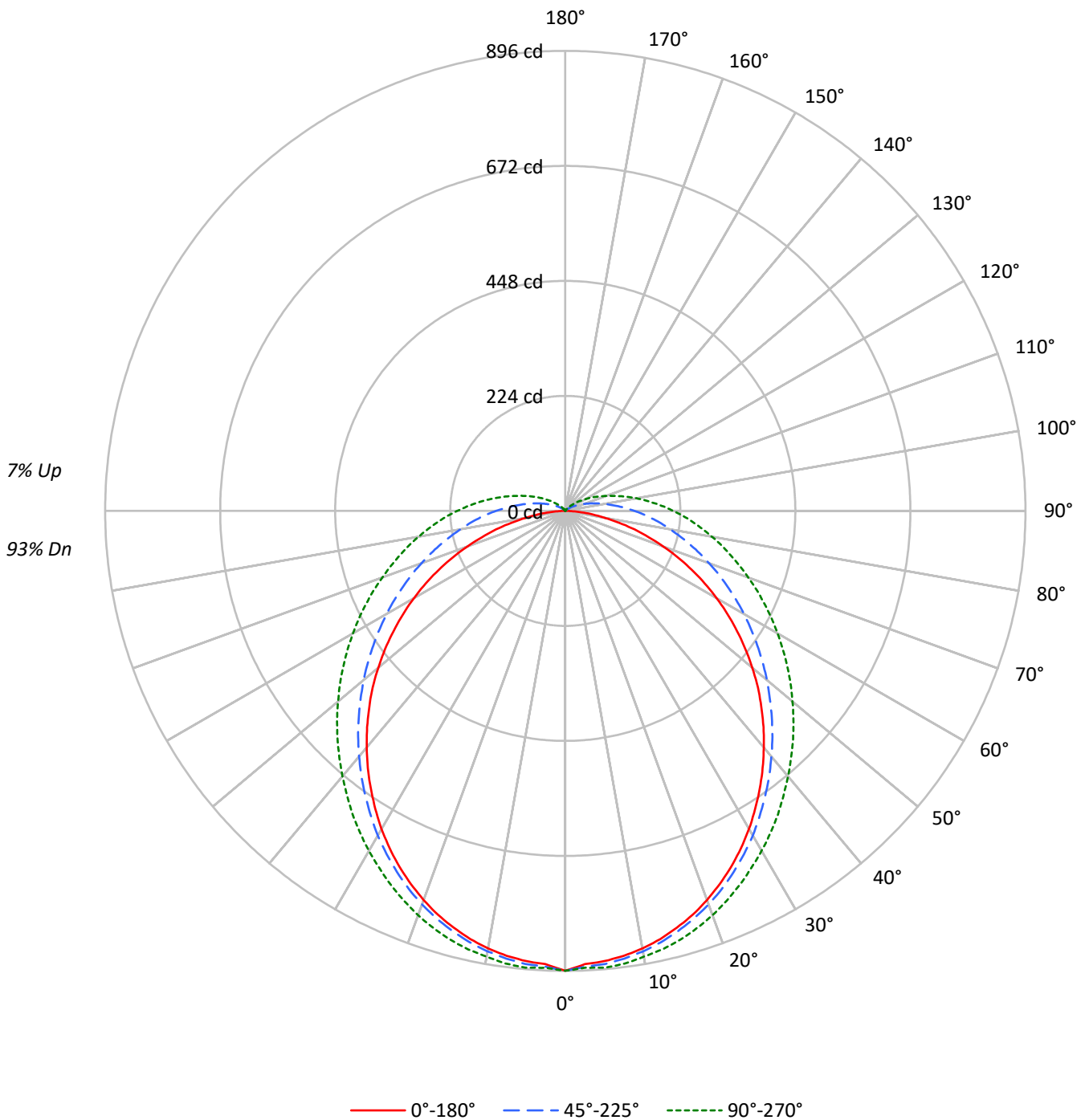
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2965.0 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.2
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	76	76	76	74
2	95	86	78	72	92	83	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	43
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	24	24	24	24	23
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6372	6372	6372
5°	6287	6327	6377
10°	6253	6293	6369
15°	6190	6241	6370
20°	6107	6177	6347
25°	6003	6090	6310
30°	5878	6000	6282
35°	5734	5892	6269
40°	5585	5799	6268
45°	5430	5719	6311
50°	5260	5671	6392
55°	5069	5659	6546
60°	4847	5715	6792
65°	4578	5864	7197
70°	4242	6195	7886
75°	3835	6897	9151
80°	3245	8498	11886
85°	2629	13845	20368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 37500 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	2.9
10°-20°	241.3	8.1
20°-30°	361.4	12.2
30°-40°	430.9	14.5
40°-50°	446.9	15.1
50°-60°	414.6	14.0
60°-70°	345.9	11.7
70°-80°	257.9	8.7
80°-90°	171.7	5.8
90°-100°	104.5	3.5
100°-110°	58.4	2.0
110°-120°	29.2	1.0
120°-130°	12.2	0.4
130°-140°	3.8	0.1
140°-150°	0.9	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	687.4	23.2
0°-40°	1118.3	37.7
0°-60°	1979.7	66.8
0°-90°	2755.2	92.9
90°-120°	192.0	6.5
90°-150°	209.0	7.0
90°-180°	210.0	7.1
0°-180°	2965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	880	901	886	891	893	84
15°	840	862	847	863	865	237
25°	765	785	776	798	804	352
35°	660	678	678	712	722	413
45°	540	554	568	613	627	416
55°	409	423	456	510	528	365
65°	272	294	348	407	428	269
75°	140	178	251	312	333	147
85°	32	88	170	228	250	36
90°	1	58	135	190	210	2
95°	0	36	104	156	174	0
105°	0	11	57	96	111	0
115°	1	3	27	54	64	1
125°	1	1	10	26	32	1
135°	1	1	3	9	12	1
145°	1	1	1	2	3	0
155°	1	1	1	1	1	1
165°	1	1	1	1	1	0
175°	1	1	1	1	0	0
180°	1	1	1	1	1	



TEST NUMBER: P893441

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6
2.5°	883.7	885.1	897.8	897.1	894.9	903.4	905.5	898.5	887.2	898.5	888.6
5°	880.2	881.6	894.2	893.5	891.4	900.6	901.3	894.9	883.7	894.9	885.8
7.5°	873.9	875.3	887.9	887.2	885.8	894.9	894.2	889.3	877.4	889.3	879.5
10°	865.5	866.2	879.5	878.1	877.4	886.5	884.4	880.2	868.3	880.2	871.1
12.5°	854.3	855.0	868.3	866.9	866.9	875.3	872.5	869.0	857.1	868.3	860.6
15°	840.3	841.0	853.6	852.9	852.9	862.0	857.8	855.0	843.8	855.7	847.3
17.5°	824.9	824.2	837.5	836.1	837.5	845.9	840.3	838.9	828.4	839.6	832.6
20°	806.6	806.6	818.6	817.9	820.0	827.7	820.7	821.4	810.8	822.8	815.8
22.5°	786.3	785.6	797.5	797.5	799.6	807.3	799.6	801.7	791.2	802.4	796.8
25°	764.6	763.2	775.1	775.1	778.6	784.9	776.5	779.3	769.5	780.7	775.8
27.5°	740.8	738.7	750.6	751.3	754.1	760.4	751.3	755.5	746.4	756.9	753.4
30°	715.5	713.4	725.3	726.1	729.6	734.5	725.3	731.0	722.5	733.1	730.3
32.5°	688.2	686.8	698.0	699.4	702.9	706.4	698.0	703.6	696.6	707.1	704.3
35°	660.2	658.8	669.3	671.4	674.9	677.7	668.6	676.3	670.0	679.8	678.4
37.5°	631.4	629.3	640.6	642.0	646.2	647.6	639.1	648.3	642.7	652.5	651.8
40°	601.3	599.2	610.4	611.8	616.0	616.0	609.0	618.8	614.6	623.7	624.4
42.5°	571.2	569.1	578.9	581.7	585.2	585.2	578.2	588.7	585.9	595.0	597.1
45°	539.6	537.5	546.6	549.4	553.6	553.6	546.6	558.6	556.5	565.6	568.4
47.5°	508.8	506.0	514.4	517.2	521.4	520.7	515.1	527.0	526.3	535.4	540.3
50°	475.2	473.1	481.5	484.3	489.2	487.8	483.6	496.2	496.2	505.3	512.3
52.5°	442.2	440.1	448.5	451.3	455.5	455.5	451.3	464.6	466.7	475.9	484.3
55°	408.6	405.8	414.2	417.0	421.9	422.6	419.1	432.4	436.6	447.1	456.2
57.5°	374.9	373.5	380.5	383.3	389.7	389.7	387.6	401.6	407.2	418.4	428.9
60°	340.6	339.2	345.5	349.0	356.0	357.4	356.0	370.7	378.4	389.7	401.6
62.5°	306.3	304.9	311.2	316.1	323.8	325.2	325.9	341.3	349.7	361.6	374.9
65°	271.9	270.5	276.8	282.4	291.5	293.6	295.7	311.9	321.7	334.3	348.3
67.5°	237.6	236.9	243.2	250.2	260.0	262.8	266.3	283.1	294.3	307.7	323.1
70°	203.9	203.2	209.5	218.0	229.9	233.4	237.6	254.4	268.4	282.4	297.8
72.5°	170.3	171.0	178.0	187.8	201.1	204.6	210.2	227.8	243.2	257.9	274.0
75°	139.5	139.5	147.2	158.4	173.1	178.0	184.3	202.5	218.7	234.1	250.9
77.5°	107.9	107.9	117.0	131.1	147.2	152.1	159.8	178.7	196.2	211.6	228.5
80°	79.2	80.6	91.1	105.1	121.9	128.3	137.4	156.3	175.2	190.6	207.4
82.5°	54.0	56.1	67.3	83.4	100.2	106.5	115.6	136.0	154.9	171.0	188.5
85°	32.2	35.7	47.7	63.8	81.3	88.3	98.1	117.0	136.0	152.1	169.6
87.5°	14.7	19.6	32.2	48.4	65.2	72.9	81.3	99.5	118.4	134.6	152.8
90°	1.4	8.4	21.0	35.0	51.2	58.2	66.6	84.1	102.3	117.0	134.6
92.5°	0.0	3.5	12.6	25.2	39.2	46.3	54.0	70.8	86.9	101.6	118.4
95°	0.0	1.4	7.0	17.5	29.4	35.7	42.8	58.2	74.3	88.3	103.7
97.5°	0.0	0.7	4.2	11.9	21.7	27.3	33.6	47.7	62.4	75.7	89.7
100°	0.0	0.7	2.1	7.7	16.1	20.3	26.6	38.5	51.9	63.8	77.8
102.5°	0.0	0.0	1.4	4.9	11.9	15.4	20.3	30.8	42.8	54.0	66.6
105°	0.0	0.0	0.7	3.5	8.4	11.2	15.4	24.5	35.0	44.9	56.8
107.5°	0.0	0.0	0.7	2.1	5.6	8.4	11.9	18.9	28.0	37.1	47.7
110°	0.7	0.7	0.7	1.4	4.2	6.3	8.4	14.7	23.1	30.8	39.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.7	0.7	0.7	0.7	2.8	4.2	6.3	11.2	18.2	24.5	32.9
115°	0.7	0.7	0.7	0.7	2.1	2.8	4.2	8.4	14.0	19.6	26.6
117.5°	0.7	0.7	0.7	0.7	1.4	2.1	2.8	6.3	10.5	15.4	21.7
120°	0.7	0.7	0.7	0.7	0.7	1.4	2.1	4.2	8.4	11.9	17.5
122.5°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	3.5	6.3	9.1	13.3
125°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	4.2	7.0	10.5
127.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.8	4.9	7.7
130°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	3.5	5.6
132.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.8	4.2
135°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.8
137.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1
140°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
142.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
145°	0.7	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
147.5°	0.7	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
150°	0.7	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
152.5°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7
155°	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7
157.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7
160°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7
162.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7
165°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7
167.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7
170°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
172.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
177.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6
2.5°	891.4	893.5	895.6	890.0	893.5	899.9	902.0	893.5	896.3	890.7
5°	888.6	890.0	892.8	885.8	890.7	896.3	899.9	892.8	897.1	892.8
7.5°	883.0	884.4	887.9	880.9	887.2	892.1	896.3	889.3	893.5	889.3
10°	874.6	876.7	881.6	873.2	880.9	885.1	889.3	881.6	885.8	881.6
12.5°	864.1	867.6	871.8	864.1	871.8	875.3	880.9	873.2	878.1	874.6
15°	851.5	855.0	860.6	852.9	862.7	865.5	871.1	863.4	868.3	864.8
17.5°	836.8	841.0	848.0	838.9	850.1	852.2	857.8	850.8	855.7	852.2
20°	820.0	824.2	831.2	822.8	834.0	835.4	841.7	835.4	840.3	838.2
22.5°	800.3	805.2	812.3	804.5	816.5	816.5	824.2	817.9	823.5	821.4
25°	780.0	785.6	793.3	784.9	797.5	797.5	805.9	799.6	805.2	803.8
27.5°	758.3	764.6	773.7	765.3	777.9	777.2	785.6	780.0	786.3	784.2
30°	735.2	742.2	751.3	744.3	757.6	756.2	764.6	759.7	765.3	764.6
32.5°	709.9	717.6	728.9	721.1	734.5	733.1	743.6	738.0	745.0	743.6
35°	684.7	693.1	704.3	697.3	712.0	709.9	720.4	715.5	722.5	721.8
37.5°	658.8	667.9	679.1	673.5	687.5	685.4	696.6	692.4	700.1	698.0
40°	632.1	641.3	653.2	648.3	663.0	660.2	672.1	668.6	676.3	674.9
42.5°	605.5	615.3	627.2	624.4	638.4	635.6	647.6	644.8	652.5	651.1
45°	578.2	588.7	601.3	598.5	613.2	610.4	622.3	620.2	627.9	627.2
47.5°	550.8	562.1	574.7	573.3	587.3	584.5	597.1	595.0	602.7	602.7
50°	522.8	535.4	548.0	547.3	561.4	558.6	569.8	569.8	578.2	577.5
52.5°	494.8	508.1	521.4	521.4	535.4	532.6	545.2	544.5	552.9	552.9
55°	468.1	480.1	493.4	496.2	509.5	505.3	518.6	520.0	527.0	527.7
57.5°	441.5	454.1	467.4	471.0	483.6	480.8	493.4	494.8	501.8	502.5
60°	414.9	426.8	440.1	445.0	457.6	454.8	467.4	468.8	476.6	477.3
62.5°	388.3	400.2	414.9	419.8	431.7	429.6	442.9	444.3	451.3	452.7
65°	362.3	374.9	389.0	396.0	407.2	404.4	417.7	419.1	426.8	427.5
67.5°	337.1	349.7	363.7	371.4	381.9	380.5	393.2	396.0	402.3	403.7
70°	312.6	325.2	339.9	347.6	358.1	357.4	369.3	371.4	378.4	379.1
72.5°	288.7	301.4	316.1	325.2	334.3	333.6	345.5	348.3	355.3	356.0
75°	265.6	278.9	292.9	302.8	311.9	311.2	323.1	325.9	332.2	332.9
77.5°	243.9	257.2	271.9	281.7	289.4	290.1	300.7	303.5	309.8	311.9
80°	223.6	236.2	250.2	260.7	267.7	269.1	278.9	282.4	287.3	290.1
82.5°	203.9	216.6	230.6	240.4	247.4	248.8	257.9	262.1	267.0	269.1
85°	185.0	197.6	210.9	221.5	227.8	228.5	237.6	241.8	246.0	249.5
87.5°	166.8	179.4	192.0	203.2	208.8	210.2	218.7	222.9	226.4	229.9
90°	148.6	161.2	173.8	184.3	189.9	190.6	199.7	203.9	207.4	210.2
92.5°	131.8	144.4	157.0	167.5	172.4	173.8	181.5	186.4	189.2	192.0
95°	115.6	128.3	139.5	150.7	155.6	157.7	164.7	168.9	172.4	173.8
97.5°	101.6	112.8	123.3	134.6	138.8	140.9	147.9	152.8	155.6	157.0
100°	88.3	98.8	108.6	119.1	123.3	125.4	131.8	136.0	138.8	140.9
102.5°	76.4	86.2	95.3	105.1	109.3	110.7	116.3	120.5	123.3	125.4
105°	65.9	75.0	83.4	92.5	96.0	98.1	103.0	106.5	109.3	110.7
107.5°	56.1	65.2	72.2	80.6	84.1	85.5	90.4	94.6	96.7	97.4
110°	47.7	55.4	62.4	69.4	73.6	75.0	79.2	82.7	84.8	85.5



TEST NUMBER: P893441

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	39.9	47.0	53.3	59.6	63.1	64.5	68.7	72.2	73.6	74.3
115°	32.9	39.9	44.9	51.2	54.0	55.4	58.9	62.4	63.1	64.5
117.5°	26.6	32.9	37.8	42.8	45.6	47.0	49.8	52.6	54.0	54.7
120°	21.7	26.6	30.8	35.7	37.8	39.2	42.0	44.9	45.6	46.3
122.5°	17.5	21.7	25.2	29.4	31.5	32.9	35.0	37.1	37.8	38.5
125°	13.3	17.5	20.3	23.8	25.9	26.6	28.7	30.8	31.5	32.2
127.5°	10.5	13.3	16.1	18.9	20.3	21.0	23.1	24.5	25.2	25.9
130°	7.7	9.8	11.9	14.7	16.1	16.8	18.2	19.6	20.3	20.3
132.5°	5.6	7.7	9.1	11.2	11.9	12.6	14.0	15.4	15.4	16.1
135°	3.5	4.9	6.3	7.7	9.1	9.1	10.5	11.2	11.9	11.9
137.5°	2.8	3.5	4.2	5.6	6.3	7.0	7.0	8.4	8.4	8.4
140°	2.1	2.8	2.8	3.5	4.2	4.9	4.9	5.6	5.6	5.6
142.5°	1.4	2.1	2.1	2.8	2.8	3.5	3.5	3.5	4.2	4.2
145°	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.8	2.8	2.8
147.5°	0.7	0.7	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.1
150°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
167.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
170°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
172.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
175°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
177.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.72	18.26	17.19	18.72	19.20	18.29	19.83	18.76	20.29	20.77
	3H	18.40	19.80	18.88	20.27	20.80	20.92	22.32	21.40	22.79	23.32
	4H	19.00	20.33	19.50	20.81	21.35	22.23	23.56	22.73	24.05	24.59
	6H	19.40	20.63	19.91	21.13	21.69	23.64	24.88	24.15	25.37	25.93
	8H	19.51	20.70	20.04	21.22	21.78	24.38	25.57	24.91	26.09	26.66
	12H	19.59	20.73	20.12	21.24	21.84	25.23	26.37	25.77	26.89	27.48
4H	2H	17.65	18.98	18.15	19.46	20.01	18.85	20.18	19.35	20.66	21.20
	3H	19.63	20.77	20.15	21.29	21.86	21.76	22.90	22.28	23.42	23.99
	4H	20.40	21.45	20.94	21.98	22.58	23.29	24.33	23.82	24.86	25.46
	6H	20.98	21.91	21.54	22.47	23.08	24.93	25.85	25.48	26.41	27.02
	8H	21.17	22.03	21.73	22.60	23.22	25.81	26.68	26.37	27.24	27.86
	12H	21.29	22.08	21.87	22.67	23.30	26.81	27.60	27.40	28.19	28.82
8H	4H	21.28	22.15	21.85	22.71	23.34	23.65	24.51	24.21	25.08	25.70
	6H	22.16	22.90	22.76	23.51	24.14	25.55	26.28	26.14	26.89	27.52
	8H	22.51	23.18	23.12	23.80	24.44	26.63	27.30	27.24	27.91	28.55
	12H	22.78	23.38	23.39	23.98	24.69	27.90	28.49	28.50	29.10	29.80
12H	4H	21.56	22.35	22.14	22.94	23.57	23.69	24.48	24.27	25.07	25.70
	6H	22.61	23.28	23.22	23.90	24.54	25.66	26.32	26.26	26.94	27.58
	8H	23.13	23.73	23.74	24.33	25.04	26.85	27.45	27.46	28.05	28.76